

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Lakshmi Channavajjala Examiner #: 74459 Date: 8/28/03
 Art Unit: _____ Phone Number 30 Serial Number: 101 069220
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Cosmetic Compois - - - neutralized water soluble -
organization compds.
 Inventors (please provide full names): Isabelle Rollat - Corvol
Henri Samain

Earliest Priority Filing Date: 9/2/99

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

1. Please perform a search on
 organosilicon compd (as described in cl 1) +
 a neutralizing agent (cl. 1)
2. Please search for the Organosilicon
 Compds (2 formulas) of cl. 5
 with neutralizing agents of (cl. 1
 and/ or cl. 7).

thanks

L. Channavajjala

STAFF USE ONLY

Searcher: Point of Contact:
Alexandra Wacławiw
 Searcher Phone: Technical Info. Specialist
 Searcher Loc: GM1 6A02 Tel: 308-4491
 Date Searcher Picked Up: 9-4-03
 Date Completed: 9-4-03
 Searcher Prep & Review Time: 16
 Clerical Prep Time: _____
 Online Time: 42

Type of Search

NA Sequence (#) _____
 AA Sequence (#) _____
 Structure (#) 1
 Bibliographic _____
 Litigation _____
 Fulltext _____
 Patent Family _____
 Other _____

Vendors and cost where applicable

STN \$ 248.00
 Dialog _____
 Questel/Orbit _____
 Dr. Link _____
 Lexis/Nexis _____
 Sequence Systems _____
 WWW/Internet _____
 Other (specify) _____

(FILE 'HCAPLUS' ENTERED AT 12:40:06 ON 04 SEP 2003)
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FILE 'REGISTRY' ENTERED AT 12:42:37 ON 04 SEP 2003
ACT CHANN/A

L1 STR
L2 6485 SEA FILE=REGISTRY SSS FUL L1

E SULFURIC ACID/CN
L3 1 S E3

FILE 'HCAPLUS' ENTERED AT 12:42:55 ON 04 SEP 2003
L4 16488 S L2
L5 113609 S L3 OR SULFURIC ACID#
L6 128 S L4 AND L5
L7 92856 S NEUTRAL?
L8 3 S L6 AND L7
L9 409259 S NEUTRAL?/AB
L10 5 S L6 AND L9
L11 5 S L10 OR L8
L12 81896 S SILOXANE
L13 475 S L12 AND L5
L14 68 S L13 AND 62/SX,SC
L15 2 S L14 AND (NEUTRAL? OR NEUTRAL?/AB)
L16 6 S L15 OR L11
L17 776 S L12 (L) (NONPOLYMER? OR NON POLYMER?)
L18 12 S L17 AND L5
L19 11 S L18 NOT L16
L20 0 S L19 AND 62/SX,SC

FILE 'REGISTRY' ENTERED AT 12:47:02 ON 04 SEP 2003

FILE 'HCAPLUS' ENTERED AT 12:47:17 ON 04 SEP 2003
L21 51 S L4 AND L17
L22 2 S L21 AND (NEUTRAL? OR L5)
L23 1 S L22 NOT (L16)

=>

=> fil reg

FILE 'REGISTRY' ENTERED AT 12:47:02 ON 04 SEP 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 SEP 2003 HIGHEST RN 577952-45-5

DICTIONARY FILE UPDATES: 2 SEP 2003 HIGHEST RN 577952-45-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

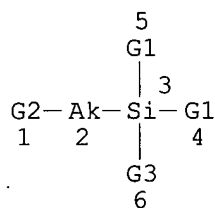
=> d que stat l2

L1 STR

O~Ak
@7 8

NH~Ak
@9 10

Ak~N~Ak
13 @11 12



O~Si
@14 15

VAR G1=X/OH/7

VAR G2=NH2/9/11

VAR G3=X/OH/7/14

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

L2 6485 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 164740 ITERATIONS

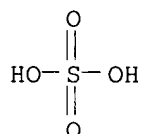
6485 ANSWERS

SEARCH TIME: 00.00.10

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L3. 1 SEA FILE=REGISTRY ABB=ON PLU=ON "SULFURIC ACID"/CN

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 7664-93-9 REGISTRY
 CN **Sulfuric acid (8CI, 9CI)** (CA INDEX NAME)
 OTHER NAMES:
 CN BOV
 CN Brimstone acid
 CN Contact acid
 CN Dihydrogen sulfate
 CN Dipping acid
 CN NSC 248648
 CN NSC 38965
 CN Oil of vitriol
 CN Sulphuric acid
 CN Vitriol brown oil
 FS 3D CONCORD
 DR 127529-01-5, 119540-51-1, 140623-70-7
 MF H2 O4 S
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO,
 CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*,
 DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
 GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
 NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA,
 ULIDAT, USAN, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

88629 REFERENCES IN FILE CA (1937 TO DATE)
 3998 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 88737 REFERENCES IN FILE CAPLUS (1937 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil hcaplus
 FILE 'HCAPLUS' ENTERED AT 12:47:17 ON 04 SEP 2003
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FILE COVERS 1907 - 4 Sep 2003 VOL 139 ISS 10

FILE LAST UPDATED: 2 Sep 2003 (20030902/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d his l4-

(FILE 'HCAPLUS' ENTERED AT 12:42:55 ON 04 SEP 2003)

L4 16488 S L2
 L5 113609 S L3 OR SULFURIC ACID#
 L6 128 S L4 AND L5
 L7 92856 S NEUTRAL?
 L8 3 S L6 AND L7
 L9 409259 S NEUTRAL?/AB
 L10 5 S L6 AND L9
 L11 5 S L10 OR L8
 L12 81896 S SILOXANE
 L13 475 S L12 AND L5
 L14 68 S L13 AND 62/SX,SC
 L15 2 S L14 AND (NEUTRAL? OR NEUTRAL?/AB)
 L16 6 S L15 OR L11
 L17 776 S L12 (L) (NONPOLYMER? OR NON POLYMER?)
 L18 12 S L17 AND L5
 L19 11 S L18 NOT L16
 L20 0 S L19 AND 62/SX,SC

62 = cosmetics

FILE 'REGISTRY' ENTERED AT 12:47:02 ON 04 SEP 2003

FILE 'HCAPLUS' ENTERED AT 12:47:17 ON 04 SEP 2003

=> d .ca hitstr l16 1-6

L16 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:167779 HCAPLUS

DOCUMENT NUMBER: 134:197858

TITLE: Cosmetic composition based on hardly or non-polymerized, water soluble and partly **neutralized** silicon organic compounds

INVENTOR(S): Rollat-Corvol, Isabelle; Samain, Henri

PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001015661	A1	20010308	WO 2000-FR2416	20000901
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				

CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
 MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
 SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

FR 2798063 A1 20010309 FR 1999-11025 19990902

EP 1207842 A1 20020529 EP 2000-960772 20000901

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL

JP 2003508417 T2 20030304 JP 2001-519875 20000901

PRIORITY APPLN. INFO.: FR 1999-11025 A 19990902

WO 2000-FR2416 W 20000901

OTHER SOURCE(S): MARPAT 134:197858

AB The invention concerns a compn. comprising, in a cosmetically acceptable aq. medium, at least 0.05 wt.% relative to the compn. total wt., one or several water sol. org. silicon compds., having one, two or three silicon atoms, at least a basic chem. function and at least two hydroxyl groups or capable of being hydrolyzed per mol., said org. silicon compds. being partly **neutralized** by a **neutralizing** agent, selected among sulfuric acid, sulfuric acid salts and mixts. thereof. The invention is applicable to hairstyling compns. An aq. soln. contained aminopropyltriethoxysilane 12 and sulfuric acid q.s. to **neutralize** silane and water q.s. 100 g. The soln. was applied on hair and dried to obtain a homogeneous, transparent, flexible, non-brittle film.

IC ICM A61K007-06

ICS A61K007-48

CC 62-3 (Essential Oils and Cosmetics)

ST hair prepn **neutralized** silicon **sulfuric acid**

IT **Siloxanes** (nonpolymeric)

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(di-Me, amino-contg.; cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

IT Hair preparations

(permanent wave; cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

IT 919-30-2, Aminopropyltriethoxysilane

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

IT 7664-93-9, Sulfuric acid,, reactions

7664-93-9D, Sulfuric acid, alkali salts,
 reactions 7783-20-2, Ammonium sulfate, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

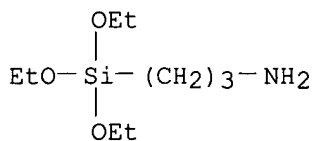
(cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

IT 919-30-2, Aminopropyltriethoxysilane

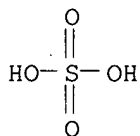
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

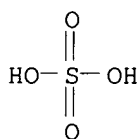
RN 919-30-2 HCAPLUS
CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



IT 7664-93-9, Sulfuric acid,, reactions
7664-93-9D, Sulfuric acid, alkali salts, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(cosmetic compn. based on hardly or non-polymd., water sol. and partly
neutralized silicon org. compds.)
RN 7664-93-9 HCAPLUS
CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



RN 7664-93-9 HCAPLUS
CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)

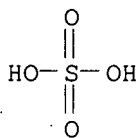


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1996:73522 HCAPLUS
DOCUMENT NUMBER: 124:118270
TITLE: Manufacture of silicate resins
INVENTOR(S): Kimura, Tsuneo; Kozai, Toshuki
PATENT ASSIGNEE(S): Shinetsu Chem Ind Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

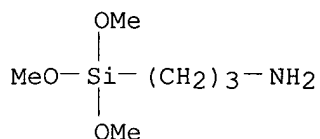
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07286043	A2	19951031	JP 1994-102353	19940415
JP 2914868	B2	19990705		
PRIORITY APPLN. INFO.:			JP 1994-102353	19940415

- AB Alkyl silicates with SiO₂ and/or their partially hydrolysis compds., organosiloxanes with (R₁)_aSiO(4-a)/2 (R₁ = H, (substituted) monovalent hydrocarbons; a = 1-3), and .gtoreq.1 acid catalyst selected from sulfonic acid compds. and phosphonitrilic chloride are treated in the presence of water, the catalysts are **neutralized**, and the product is treated with organosiloxanes (R₁)_b(R₂)_cSiX(4-b-c) (R₁, R₂ = monovalent reactive org. groups; X = alkoxy, OH; b = 0-2, c = 1-3, 1.ltoreq.b + c.ltoreq.3) to give title polymers with SiO₂ and reactive org. groups, useful for adhesives, coatings, etc. Thus, hexamethyldisiloxane 162.4, Et silicate 40 150.0, 98%-sulfuric acid 2, and water 36 g were mixed, **neutralized**, and treated with 179 g .gamma.-aminopropyltrimethoxysilane for 6 h to give a silicate resin contg. amino groups.
- IC ICM C08G077-06
- CC 35-2 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 37, 38
- IT 104-15-4, p-Toluenesulfonic acid, uses **7664-93-9, Sulfuric acid**, uses
RL: CAT (Catalyst use); USES (Uses)
(manuf. of silicate resins with reactive org. groups prepd. from alkyl silicates, acid catalysts, and water)
- IT 107-46-0DP, Hexamethyldisiloxane, reaction products with alkyl silicates 681-84-5DP, Tetramethoxysilane, reaction products with organopolysiloxanes 2530-83-8DP, .gamma.-Glycidoxypropyltrimethoxysilane, reaction products with alkyl silicates 2627-95-4DP, 1,3-Divinyl-1,1,3,3-tetramethyldisiloxane, reaction products with alkyl silicates 4369-14-6DP, (Acryloyloxy)propyltrimethoxysilane, reaction products with alkyl silicates 4420-74-0DP, .gamma.-Mercaptopropyltrimethoxysilane, reaction products with alkyl silicates 11099-06-2DP, Ethyl silicate 40, reaction products with organopolysiloxanes **13822-56-5DP**, .gamma.-Aminopropyltrimethoxysilane, reaction products with alkyl silicates
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(manuf. of silicate resins with reactive org. groups prepd. from alkyl silicates, acid catalysts, and water)
- IT **7664-93-9, Sulfuric acid**, uses
RL: CAT (Catalyst use); USES (Uses)
(manuf. of silicate resins with reactive org. groups prepd. from alkyl silicates, acid catalysts, and water)
- RN 7664-93-9 HCAPLUS
- CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



- IT **13822-56-5DP**, .gamma.-Aminopropyltrimethoxysilane, reaction products with alkyl silicates
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(manuf. of silicate resins with reactive org. groups prepd. from alkyl silicates, acid catalysts, and water)
- RN 13822-56-5 HCAPLUS

CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



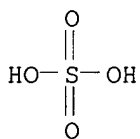
L16 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1992:66929 HCAPLUS
 DOCUMENT NUMBER: 116:66929
 TITLE: Cosmetic sunscreen composition
 INVENTOR(S): Nicoll, Gregg Alan; Ojo-Osagie, Ann Camilla; Pereira, Mavis Claire
 PATENT ASSIGNEE(S): Unilever PLC, UK; Unilever N. V.
 SOURCE: Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 456459	A2	19911113	EP 1991-304099	19910507
EP 456459	A3	19920108		
EP 456459	B1	19940323		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
CA 2041917	AA	19911111	CA 1991-2041917	19910507
AU 9176406	A1	19911114	AU 1991-76406	19910507
AU 636483	B2	19930429		
IN 172888	A	19931225	IN 1991-B0127	19910507
AT 103170	E	19940415	AT 1991-304099	19910507
ES 2062683	T3	19941216	ES 1991-304099	19910507
GB 2243780	A1	19911113	GB 1991-10187	19910510
GB 2243780	B2	19940525		
JP 04226906	A2	19920817	JP 1991-106019	19910510
JP 07045375	B4	19950517		
ZA 9103552	A	19930127	ZA 1991-3552	19910510
US 5196187	A	19930323	US 1991-698412	19910510
PRIORITY APPLN. INFO.:			GB 1990-10525	19900510
			EP 1991-304099	19910507

AB A water-in-silicone oil emulsion, suitable for topical application to skin or hair, comprises a volatile polydimethylsiloxane 1-50, a silicone surfactant 0.1-25, a C3-28 2-hydroxyalkanoic acid or salt or soap 0.1-10, ultrafine TiO₂ (1-100 nm av. particle size) 1-10, an inorg. electrolyte 0.001-10 wt.%, and water. The compn. provides enhanced protection from the damaging effects of sunlight or adverse climate conditions, is exceptionally stable, and retains superior sensory attributes. A fluid cream with an SPF (sun protection factor) of 12.6 contained volatile siloxane (DC 345) 8.20, silicone surfactant (DC 3225C) 12.00, petroleum jelly 0.50, mineral oil 1.50, Parsol MCX (octyl methoxycinnamate) 3.00, ultrafine TiO₂ (oil-dispersible) 2.00, NaCl 2.00, butylene glycol 10.00, L-proline 0.10, 2-hydroxyoctanoic acid 1.00, 2-hydroxypropanoic acid 5.00 wt./wt.%, and **neutralizing** agent, preservative, perfume, water q.s.

IC ICM A61K007-48

ICS A61K007-06; A61K007-00
 CC 62-4 (Essential Oils and Cosmetics)
 IT **Siloxanes** and Silicones, biological studies
 RL: BIOL (Biological study)
 (surfactants, water-in-oil emulsion contg.)
 IT Polyoxyalkylenes, biological studies
 RL: BIOL (Biological study)
 (di-Me **siloxane**-, water-in-silicone oil emulsion sunscreen
 contg.)
 IT **Siloxanes** and Silicones, biological studies
 RL: BIOL (Biological study)
 (di-Me, polyoxyalkylene-, water-in-silicone oil emulsion sunscreen
 contg.)
 IT 50-21-5, biological studies 57-55-6, Propane-1,2-diol, biological
 studies 110-63-4, Butane-1,4-diol, biological studies 147-85-3,
 L-Proline, biological studies 463-79-6D, Carbonic acid, alkali metal
 salts 504-63-2, Propane-1,3-diol 506-87-6 513-85-9, Butane-2,3-diol
 541-02-6 556-67-2 617-73-2 1314-13-2, Zinc oxide, biological studies
 1332-37-2, Iron oxide, biological studies 5466-77-3 7631-86-9, Silica,
 biological studies 7647-14-5, Sodium chloride, biological studies
7664-93-9D, Sulfuric acid, alkali metal salts
 7783-20-2, **Sulfuric acid** diammonium salt, biological
 studies 13463-67-7, Titanium dioxide, biological studies
 RL: BIOL (Biological study)
 (water-in-silicone oil emulsion sunscreen contg.)
 IT **7664-93-9D, Sulfuric acid**, alkali metal salts
 RL: BIOL (Biological study)
 (water-in-silicone oil emulsion sunscreen contg.)
 RN 7664-93-9 HCAPLUS
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



L16 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1991:170003 HCAPLUS

DOCUMENT NUMBER: 114:170003

TITLE: Manufacture of phenol-formaldehyde binders for
 moisture-resistant inorganic fibrous insulating
 materials

INVENTOR(S): Sachse, Ursula; Schindler, Hans Thomas; Winkler, Rolf;
 Hennesdorf, Reinert; Schlieter, Lutz; Brueckner,
 Volker; Reineke, Karin; Gessner, Bernd; Wedekind,
 Karin

PATENT ASSIGNEE(S): VEB Elguwa Leipzig, Ger. Dem. Rep.

SOURCE: Ger. (East), 3 pp.

CODEN: GEXXA8

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

DD 285502 A7 19901219 DD 1988-324158 19881228
 PRIORITY APPLN. INFO.: DD 1988-324158 19881228

AB In the title process, in which PhOH is reacted with H₂CO in mol. ratio 1:(2-3.5) at .ltoreq.338 K in the presence of a catalyst for an H₂CO conversion of .gtoreq.60%, after which the mixt. is cooled to .apprx.308 K, and, before use, mixed with .ltoreq.0.2% (based on solids content of the resin) silane as a crosslinking agent, NaOH is used as a condensation catalyst in amts. of .ltoreq.1 wt.%, and, before use, the resin is mixed with an aq. soln. of H₂SO₄ and (NH₄)₂SO₄, or H₂SO₄, contg. 105-2000% of the amt. needed to **neutralize** the catalyst, and a pH of 5.8-6.2, preferably 5.9-6.1, is obtained. These resols are esp. suitable for bonding mineral wool or glass fibers. Mineral wool-based thermal insulators manufd. with a binder prepd. with NaOH, (NH₄)₂SO₄, H₂SO₄, and .gamma.-aminopropyltrimethoxysilane, had residual bending strength 74% after storage at 313 K and relative humidity 95% for 28 days.

IC ICM C08G008-10
 ICS C08L061-06; C04B026-12

CC 57-6 (Ceramics)
 Section cross-reference(s): 37

ST fibrous thermal insulator binder; mineral wool thermal insulator binder; phenol formaldehyde resol binder; ammonium sulfate resol; **sulfuric acid** resol; sodium hydroxide catalyst resol

IT **13822-56-5**, .gamma.-Aminopropyltrimethoxysilane
 RL: USES (Uses)
 (adhesion-promoting agent, for resol binders, in moisture-resistant fibrous thermal insulator manuf.)

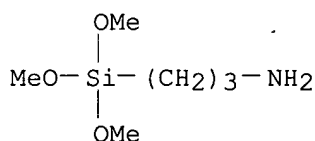
IT **7664-93-9P**, **Sulfuric acid**, uses and miscellaneous
 RL: PREP (Preparation); USES (Uses)
 (**neutralization** with, of sodium hydroxide condensation catalyst, in phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

IT 7783-20-2, Ammonium sulfate, uses and miscellaneous
 RL: USES (Uses)
 (**sulfuric acid** contg., **neutralization** with, of sodium hydroxide condensation catalyst, in phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

IT **13822-56-5**, .gamma.-Aminopropyltrimethoxysilane
 RL: USES (Uses)
 (adhesion-promoting agent, for resol binders, in moisture-resistant fibrous thermal insulator manuf.)

RN 13822-56-5 HCAPLUS

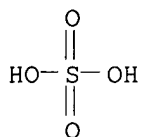
CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



IT **7664-93-9P**, **Sulfuric acid**, uses and miscellaneous
 RL: PREP (Preparation); USES (Uses)
 (**neutralization** with, of sodium hydroxide condensation catalyst, in phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

RN 7664-93-9 HCAPLUS

CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



L16 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1991:170002 HCAPLUS

DOCUMENT NUMBER: 114:170002

TITLE: Preparation of modified phenol-formaldehyde binders for the manufacture of moisture-resistant inorganic fibrous insulating materials

INVENTOR(S): Sachse, Ursula; Schindler, Hans Thomas; Winkler, Rolf; Hennersdorf, Reinert; Schlieter, Lutz; Brueckner, Volker; Reineke, Karin; Schlötzauer, Hans Juergen; Wedekind, Karin

PATENT ASSIGNEE(S): VEB Elguwa Leipzig, Ger. Dem. Rep.

SOURCE: Ger. (East), 4 pp.

CODEN: GEXXA8

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 285503	A7	19901219	DD 1988-324159	19881228

PRIORITY APPLN. INFO.: DD 1988-324159 19881228

AB In the title process, in which PhOH is reacted with H₂CO in mol. ratio 1:(2-3.5) at .ltoreq.338 K in the presence of a catalyst for an H₂CO conversion ratio of .gtoreq.60%, after which the mixt. is modified at .ltoreq.303 K with .ltoreq.20 wt.% urea and, before use, mixed with .ltoreq.0.2% (based on solids content of the resin) silane as a crosslinking agent, NaOH is used as a condensation catalyst in amts. of .ltoreq.1 wt.%, and, before use, the resin is mixed with an aq. soln. of H₂SO₄ and (NH₄)₂SO₄, or H₂SO₄, contg. 102-200% of the amt. needed to **neutralize** the catalyst, and a pH of 6.8-7.6, preferably 7.0-7.2, is obtained. These resols are esp. suitable for bonding mineral wool or glass fibers. Mineral wool-based thermal insulators manufd. with a binder prepd. with urea, NaOH, (NH₄)₂SO₄, H₂SO₄, and .gamma.-aminopropyltrimethoxysilane, had residual bending strength 72.5% after storage at 313 K and relative humidity 95% for 28 days.

IC ICM C08G008-28

ICS C04B026-12; C08L061-06; C08G014-08

CC 57-6 (Ceramics)

Section cross-reference(s): 37

ST fibrous thermal insulator binder; mineral wool thermal insulator binder; phenol formaldehyde urea resol binder; ammonium sulfate resol; **sulfuric acid** resol; sodium hydroxide catalyst resol

IT **13822-56-5**, .gamma.-Aminopropyltrimethoxysilane

RL: MOA (Modifier or additive use); USES (Uses)

(crosslinking agent, for resols, in moisture-resistant fibrous thermal insulator manuf.)

IT **7664-93-9P**, **Sulfuric acid**, uses and miscellaneous

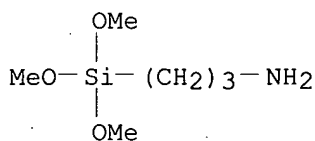
RL: PREP (Preparation); USES (Uses)

(**neutralization** with, of sodium hydroxide condensation catalyst, in urea-phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

IT 7783-20-2, Ammonium sulfate, uses and miscellaneous
 RL: USES (Uses)
 (**sulfuric acid** contg., **neutralization** with, of sodium hydroxide condensation catalyst, in urea-phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

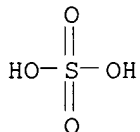
IT 13822-56-5, .gamma.-Aminopropyltrimethoxysilane
 RL: MOA (Modifier or additive use); USES (Uses)
 (crosslinking agent, for resols, in moisture-resistant fibrous thermal insulator manuf.)

RN 13822-56-5 HCAPLUS
 CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



IT 7664-93-9P, Sulfuric acid, uses and miscellaneous
 RL: PREP (Preparation); USES (Uses)
 (**neutralization** with, of sodium hydroxide condensation catalyst, in urea-phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

RN 7664-93-9 HCAPLUS
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)

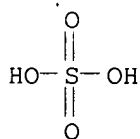


L16 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1966:428190 HCAPLUS
 DOCUMENT NUMBER: 65:28190
 ORIGINAL REFERENCE NO.: 65:5193d-g
 TITLE: Glass fiber product
 INVENTOR(S): Tiede, Ralph L.
 PATENT ASSIGNEE(S): Owens-Corning Fiberglas Corp.
 SOURCE: 5 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

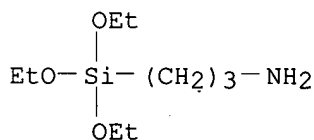
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3253948		19660531	US	19620212
AB CA 48, 4793a; U.S. 2,308,857, CA 37, 38977. A hardened adhesive coating contg. an aq. phenolic resol and 0.02-2.0% (.gamma.-				

aminopropyl)triethoxysilane (I), based on the wt. of the coating, is added to the surface of the glass fibers. The compn. of the glass fibers is SiO₂ 53-62, Al₂O₃ 4-8, CaO 18-22, MgO 5-9, and Na₂O, K₂O, and Li₂O 9-13%. The glass may contain .1toreq.2% B₂O₃, .1toreq.0.5% MnO and TiO₂, and a small amt. (as impurity) of Fe₂O₃. The sum of Al₂O₃ and SiO₂ and the sum of Al₂O₃, SiO₂, and B₂O₃ must be from 59 to 66%. In the preferred compn. the glass contains 19-21% CaO and 6-8% MgO. A phenolic resin is formed from a mol. ratio of HCHO:PhOH of 1.25:1 to 2.5:1 and the application of heat with I at atm. pressure to an infusible, cross-linked condition. For example, fibers were drawn from SiO₂ 53.53, Al₂O₃ 7.94, CaO 20.66, MgO 6.91, (Na₂O, K₂O, and Li₂O) 10.99, MnO 0.24, TiO₂ 0.12, and Fe₂O₃ 0.21%. A 10% resin solids soln. prepd. from 180 parts HCHO (37% aq. soln.), 100 parts PhOH, and 4 parts NaOH was applied to the glass fibers with and without the addn. of 0.05% I. The materials were mixed in a vessel, allowed to stand at room temp. (approx. 25.degree.) for 16 hrs., and heated at a progressively increasing temp. which was sufficient to maintain gentle boiling. Heating was discontinued when the reaction mixt. reached 85.degree.. The NaOH was **neutralized** with H₃PO₄ and the **neutralized** resin filtered to remove pptd. Na₃PO₄. The following results were obtained:

NCL 117126000
 CC 21 (Ceramics)
 IT 7664-93-9, Sulfuric acid
 (glass fiber prespinning treatment with)
 IT 919-30-2, Propylamine, 3-(triethoxysilyl)-
 (phenol condensation products contg., coating with, on glass fibers)
 IT 7664-93-9, Sulfuric acid
 (glass fiber prespinning treatment with)
 RN 7664-93-9 HCAPLUS
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



IT 919-30-2, Propylamine, 3-(triethoxysilyl)-
 (phenol condensation products contg., coating with, on glass fibers)
 RN 919-30-2 HCAPLUS
 CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



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L1          STR
L2          6485 SEA FILE=REGISTRY SSS FUL L1
L3          1 SEA FILE=REGISTRY ABB=ON PLU=ON "SULFURIC ACID"/CN
L4          16488 SEA FILE=HCAPLUS ABB=ON PLU=ON L2
L5          113609 SEA FILE=HCAPLUS ABB=ON PLU=ON L3 OR SULFURIC ACID#/OBI
L6          128 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND L5
L7          92856 SEA FILE=HCAPLUS ABB=ON PLU=ON NEUTRAL?/OBI
L8          3 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND L7
L9          409259 SEA FILE=HCAPLUS ABB=ON PLU=ON NEUTRAL?/AB
L10         5 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND L9
L11         5 SEA FILE=HCAPLUS ABB=ON PLU=ON L10 OR L8
L12         81896 SEA FILE=HCAPLUS ABB=ON PLU=ON SILOXANE/OBI
L13         475 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND L5
L14         68 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND 62/SX,SC
L15         2 SEA FILE=HCAPLUS ABB=ON PLU=ON L14 AND (NEUTRAL?/OBI OR
          NEUTRAL?/AB)
L16         6 SEA FILE=HCAPLUS ABB=ON PLU=ON L15 OR L11
L17         776 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 (L) (NONPOLYMER?/OBI OR
          NON POLYMER?/OBI)
L21         51 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND L17
L22         2 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (NEUTRAL?/OBI OR L5)
L23         1 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 NOT (L16)

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L23 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:371880 HCAPLUS
DOCUMENT NUMBER: 132:339026
TITLE: Hair-styling composition based on organosilicone
        compounds, slightly or nonpolymerized, water-soluble,
        and partially neutralized
INVENTOR(S): Samain, Henri; Rollat, Isabelle; Jeanne, Rose Valerie;
        Sanchez, Clement
PATENT ASSIGNEE(S): L'Oreal S. A., Fr.
SOURCE: Fr. Demande, 16 pp.
        CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2783164	A1	20000317	FR 1998-11571	19980916

PRIORITY APPLN. INFO.: FR 1998-11571 19980916

OTHER SOURCE(S): MARPAT 132:339026

AB An aq. cosmetic compn. contains an organosilicone partially neutralized. A soln. of aminopropyltriethoxysilane 12, HCl 0.25, and water q.s. 100 g was prepd. The compn. produced good quality curls.

IC ICM A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

IT Carboxylic acids, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (dicarboxylic; hair-styling compn. based on organosilicone compds., slightly or nonpolymd., water-sol., and partially **neutralized**)

IT Carboxylic acids, reactions

Siloxanes (nonpolymeric)

RL: RCT (Reactant); RACT (Reactant or reagent)
(hair-styling compn. based on organosilicone compds., slightly or
nonpolymd., water-sol., and partially **neutralized**)

IT Acids, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
(org.; hair-styling compn. based on organosilicone compds., slightly or
nonpolymd., water-sol., and partially **neutralized**)

IT Hair preparations

(permanent wave; hair-styling compn. based on organosilicone compds.,
slightly or nonpolymd., water-sol., and partially **neutralized**
)

IT Carboxylic acids, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
(tricarboxylic acids; hair-styling compn. based on organosilicone
compds., slightly or nonpolymd., water-sol., and partially
neutralized)

IT **919-30-2**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)

(hair-styling compn. based on organosilicone compds., slightly or
nonpolymd., water-sol., and partially **neutralized**)

IT 7647-01-0, Hydrochloric acid, reactions 7697-37-2, Nitric acid,
reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
(hair-styling compn. based on organosilicone compds., slightly or
nonpolymd., water-sol., and partially **neutralized**)

IT **919-30-2**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)

(hair-styling compn. based on organosilicone compds., slightly or
nonpolymd., water-sol., and partially **neutralized**)

RN 919-30-2 HCAPLUS

CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)

